



October 8, 2013

Texas Commission on Environmental Quality Office of Water Water Rights Permitting and Availability Division PO Box 13088 MC-160 Austin, Texas 78711 TOEQ
WATER SUPPLY DIN

Subject: Application for a bed and banks authorization for conveyance of privately-owned groundwater, Magruder Property, Liberty County Texas

Dear Sir or Madam:

Enclosed please find a check in the amount of \$1,011.25 for filing and recording fees associated with the above referenced permit application.

Additional enclosures include an original signed and notarized application form and six copies of the form and supporting materials (Attachments A –E).

Please contact me at (936) 366-0800 or <u>BillGoodrum@forestargroup.com</u> if additional information is required, or if you have any questions. Thank you for your assistance.

Sincerely,

WB Loodum, A. William Goodrum, Sr.

Vice-President

cc:

Mark Loethen
Deputy Director Planning and Development Services Division
Department of Public Works and Engineering
City of Houston

Jun Chung
Deputy Director Public Utilities Division
Department of Public Works and Engineering
City of Houston

Ed McCarthy
Jackson, Sjoberg, McCarthy & Wilson, LLP

	cation of S						
2)		Watercourse: miles in a direction from					
	County, Texas.						
	Location	from nearby t	own (if other than Count	y Seat):	miles in a	direction	
	from					a nearby towr	
		n county high					
3)) Zip Code	e:					
4)) The dan	n will be/is loca	ated in the	(Original Survey No.	V-201	
			in				
5)) Station _	on the	e centerline of the dam is	S°	(bearing),	feet	
			corner of				
	No		, Abstract No	, in		County	
			atitude				
			ongitude coordinates in dec. ate the diversion point locati		least six decimal place	s, and indicate	
). Re		ot applicable	ate the diversion point locati	on.			
	1) Acre-	-feet of water i	mpounded by structure a	at normal maximu	ım operating level:		
	Acre-feet of water impounded by structure at normal maximum operating level: Surface area in acres of reservoir at normal maximum operating level:						
	2) Surfa	ice area in acr	es of reservoir at normal	maximum opera	ting level:		
). Dr				maximum opera	ting level:		
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2) 2) 3. A 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	rainage Are the drainage ther Not ap ther	ea Not applicate area above to plicable a U.S. Natural (SCS)) floodwarshed project equest authorized No con/Diversion counting for the No surfactor Groundwated water will be Purpose*	he dam is	acres or	square n square service spillwa square square spillwa square spillwa square square spil	niles. nservation y? num projected bent A y, Texas" propriated et per year	

В.	Lar	nds to be irrigated (if applicable): <i>Not app</i>	plicable	
	1)	Applicant proposes to irrigate a total of	N/A acres in any one year.	This acreage is all of or
		part of a larger tract(s) which is describ		
		contains a total of acr		
		of the deed(s) describing the overall tra		
		records is provided in Attachment D.	•	
	2)	Location of land to be irrigated: In the		
		Original Survey No.	, Abstract No.	
C.	Div	ersion Point No. One .	<u> </u>	·
	1)	Watercourse: Anywhere just above or	around the perimeter of Lake Hou	ston. Harris County TX
	2)	Location of point of diversion at Latitud Provide Latitude and Longitude coordinates method used to calculate the diversion point Diversion location (s) will be as authori	e <u>TBD</u> °N, Longitud in decimal degrees, to at least six deci- location.	le <u>TBD</u> °W, mal places, and indicate the
		also bearing	0	.,feet
		(distance) from the	corner of the	Original
		Survey No, Abstr	ract No, C	ounty, Texas.
	3)	Location from County Seat: Approx 28		
		City of Houston , Harri	<u>'s County, Texas.</u>	
		Location from nearby town (if other tha	n County Seat): miles in	a
		direction from		
		highway map.		·
	4)	Zip Code: TBD- several zip codes surre	ound Lake Houston	
		The diversion will be (check (√) all appropriate proposed):		
	D	irectly from stream	Existing	Proposed
	Fr	om an on-channel reservoir		1100000
	Fr	om stream to an off-channel reservoir		
	1	om a stream to an on-channel reservoir	As authorized in Certificate of Adjudication 10-496	
	Fr	om an off-channel reservoir		
	01	ther method (explain fully, use additional sheets if necessary)	See Attachment A – diversion will be groundwater	See Attachment A – diversion w be groundwat
	troi	Rate of Diversion (Check (√) applicable n Lake Houston is 13,828 gpm (East Fo location and facilities to divert groundwa	rk conveyance) or 13,902 apm /Lu	mum rate of diversion
		TBD 1. Diversion Facility:		
		A Maximum		
		B Number o	• •	
		C	- ·	
		Dgpm, Pum	p capacity of each pump	

	E. Portable pump	Yes or	_ No.	
	TBD 2. If by gravity:			
		Diversion Dam	Maximum a	nm
		od (explain fully - use add		•
	Other meth	od (oxplain laily - doc add	intorial sheets if fiece:	ssary)
	7) The drainage area above the	diversion point is	acres or	square miles
D.	Return Water or Return Flow (local	ation and quantity information	n. provide Latitude and L	ongitude coordinates in
de	cimal degrees to at least six decimal plac	ces and indicate the method (used to calculate the dive	rsion point location);
	Water which is diverted but not c			
	<u>N/A</u>			
		, tributary of		
		Basin, at a	point which is at Latit	.de
	<u> </u>	⊇N, Longitude		°W, also, bearing
	6	(dire	ction),fe	et (distance) from the
	corr	ner of the		riginal Survey
	No, Abstract No	o, in		ounty, Texas.
	Zip Code:			
	Estimated <u>annual</u> amount of retu	rn flow to said stream wil	l bea	re-feet.
E.	Surplus Water (provide Latitude and	l Longitude coordinates in de		
ind	icate the method used to calculate the d	iversion point location):		·
	Water which is diverted but not us			
	tributary of			Basin at a point
	which is at Latitude	°N, Longitude)	°W, also
	bearing°			
	(distance) from the	corner of the	***	Original Survey
	No, Abstract No	o, in		County, Texas.
	Zip Code:			·
4.	Discharge Point Information (if ap	oplicable, provide Latitude and	d Longitude coordinates	in decimal degrees to at
lea:	st six decimal places and indicate the me		•	
	This application covers two potential site described herein as "East" and "West."	es at which groundwater would	be discharged in waterco	ourse(s) for conveyance as
	Discharge Point No. or Name: Ea	est		
	Applicant will discharge groundy	vater at one or two disc	harge points from th	e applicant's property
	<u>watercourse(s)</u> for conveyance t	o a downstream diversio	n point : 1) Luce Ba	VOU in Liberty County
	(East) and 2) East Fork of the S Discharge Point is provided in Su	<u>ipplemental Discharge In</u>	formation Sheet. Plea	ase see Attachment R
	for stream segments and Attachr	ment C for photographs o	f potential discharge j	points.
Α.	Select the appropriate box for the	source of water being dis	scharged:	
	☐ Treated effluent			
	✓ Groundwater			
	O Garavator		8	
	Other		,	
В,			extending between ar	pproximately Latitude

Page 4

	30.132	312° N, Longitude <u>95.072838</u> °W and Latitude <u>30.118574</u> ° N, Longitude <u>95.058467</u> °W,		
	also be	aring°,feet from the corner of the		
	Origina	Survey No, Abstract No, in		
	Liberty	County, Texas.		
		nethod was used to determine the Latitude and Longitude for the discharge point? (i.e., GPS SGS 7.5 Topographic Map, etc.)		
	coording were in system of the Geome	location of the groundwater discharge point(s) has not been identified; however, the leates for the northern and southern points of the stream segment for the East discharge points lentified by projecting a USGS 7.5 Minute Topographic Map layer in the NAD 1983 coordinate in ArcGIS. Points (shapefile) were then assigned to the upstream and downstream locations stream segment and latitudinal and longitudinal values were calculated using the 'Calculate stry' function in ArcGIS. Attachment B provides a USGS topographical map showing stream that within which the discharge point (s) will be located.		
C.		n from County Seat: <u>Approximately 16.25</u> miles in a <u>northwesterly</u> direction from Liberty <u>seat)</u> County, Texas.		
	Locatio	n from nearby town (if other than County Seat): miles in a		
	directio	n from, a nearby town shown on county highway map.		
D.	Zip Cod	de: <u>77535</u>		
E.	Water will be discharged into <u>Luce Bayou</u> stream/reservoir, (tributaries) <u>San Jacinto</u> Basin.			
F.	Water will be discharged at a maximum rate of 31.22 cfs (14,000 gpm).			
G.	The an	nount of water that will be discharged <u>is up to 10,000</u> acre-feet per year.		
Η.	The pu <u>hydro-e</u>	rpose of use for the water being discharged will be <u>municipal, industrial, steam electric,</u> electric, mining and oil and gas, recreation, instream and environmental, and irrigation		
l.	Additio	nal information required:		
	For gro	undwater Please see Attachment A		
	1)	Provide water quality analysis and 24 hour pump test for the well if one has been conducted. Drilling of a test was initiated during August 2013; however, water quality analysis and pump test reports have not been completed as of date of application submittal. Results will be provided prior to discharge if requested.		
	2)	Locate and label the groundwater well(s) on a USGS 7.5 Minute Topographic Map. See Attachment B.		
	3)	Provide a copy of the groundwater well permit if it is located in a Groundwater Conservation District. Liberty County is not located within the jurisdiction of a groundwater conservation district.		
	4)	What aquifer the water is being pumped from? Groundwater will be produced from the Evangeline Aquifer, part of the Gulf Coast aquifer system.		
	For trea	ated effluent Not applicable		
	1)	What is the TPDES Permit Number? Provide a copy of the permit.		
	2)	Provide the monthly discharge data for the past 5 years.		
	3)	What % of treated water was groundwater, surface water?		

5. General Information. To Be Determined

A. The proposed or existing <u>diversion</u> works will be (are) located on the land of: <u>anywhere just above or around the perimeter of Lake Houston. Landowner information will be provided at such time as the around the perimeter of Lake Houston.</u>

4) If any original water is surface water, provide the base water right number.

	groundwater , whose mailing address is, whose mailing address is,
В.	If an application for the appropriation is granted, either in whole or in part, construction works will
	begin within <u>TBD</u> after such permit is issued. The proposed work will be
	completed withinfrom the date the permit is issued.
C.	purchaser will require customer to have compliant conservation and drought management plans. The required plans will be submitted prior to discharge and diversion.
D.	Interbasin transfer is not requested. Not Applicable for a groundwater bed and banks transport application.
	Applicant requests authorization to transfer acre-feet of water per year from the
	Basin to the Basin of which
	acre-feet of water will be used for purposes and
	acre-feet of water will be used for purposes. ω
Ε.	Bed and Banks request to transfer <u>up to 10,000</u> acre-feet of water per year within the bed
	and banks of <u>East Fork of San Jacinto River or Luce Bayou (as described in Attachment A)</u> tributary of San Jacinto River. <u>San Jacinto Basin</u> .
F,	Is this project located within 200 river miles of the coast? √ YesNoUnknown Note: This project does not involve any state water subject to Chapter 11, Texas Water Code.
5.	Maps, plats, plans, and drawings accompany this application as required by applicable TAC Sections.
	√ Yes No. Attachment B (USGS map) and Attachment C (photographs representative of discharge sites)
6.	<u>N/A</u> The dam(s) and reservoir(s) shown on the attached application was (were) constructed for domestic and livestock purposes and I/we elect to seek a permit under Section 11.143 of the Texas Water Code.
7.	Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement.
	This water supply is available to augment existing supplies to meet current and projected municipal, industrial, steam-electric, hydro-electric, mining and oil and gas, recreation, instream and environmental, and irrigation water demands. Because the bed and banks request is to convey privately owned groundwater and not surface water, provisions of Chapter 11, including §11.134 (c), Texas Water Code, do not generally apply.
	William B. Goodtum, Sr. Applicant Name (Sign) Nilliam B. Goodtum, Sr. Applicant Name (Sign)
	William Goodrum, Sr.,
	acting in his capacity as Vice-President, for Forestar (USA) Real Estate Group, Inc., the Applicant/Owner Applicant Name (Printed) Applicant Name (Printed)
sv	VORN TO AND SUBSCRIBED before me this SHL day of October , 20 13
	BRANDI L. SAWYER Notary Public, State of Texas My Commission Expires May 28, 2016 BRANDI L. SAWYER Notary Public for the State of Texas

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Form TCEQ-10214 (revised

Supplemental Discharge Point Information Sheet

Discharge Point No. or Name: West

Applicant will discharge groundwater at one or two discharge points from the applicant's property watercourse(s) for conveyance to a downstream diversion point: 1) Luce Bayou in Liberty County (East) and 2) East Fork of the San Jacinto River in Harris County (West). Information for the Eastt Discharge Point is provided in the main body of the application (Section 4). Please see Attachment B for identified stream segments and Attachment C for photographs of potential discharge points.

1)	Se	lect the appropriate box for the source of water being discharged:
		☐ Treated effluent
		√ Groundwater
		□ Other
2) <u>30.</u>	<u> 123</u>	cation of discharge point will be a stream segment extending between approximately Latitude <u>978</u> ° N, Longitude <u>95.131409</u> °W and , Latitude <u>30.112945</u> ° N, Longitude <u>95.138950</u> °W
	als	o bearing°,feet from the corner of the
	Ori	ginal Survey No, Abstract No, in <i>Liberty</i> County, Texas.
	an	ovide Latitude and Longitude coordinates in decimal degrees, to at least six decimal places dindicate the method was used to determine the Latitude and Longitude for the discharge point? or, GPS Unit, USGS 7.5 Topographic Map, etc.)
	poi coc loc 'Ca	act location of the groundwater discharge point(s) has not been identified; however, the ordinates for the northern and southern points of the stream segment for the West discharge into the were identified by projecting a USGS 7.5 Minute Topographic Map layer in the NAD 1983 ordinate system in ArcGIS. Points (shapefile) were then assigned to the upstream and downstream ations of the stream segment and latitudinal and longitudinal values were calculated using the alculate Geometry' function in ArcGIS. Attachment B provides a USGS topographical map showing the located within which the discharge point (s) will be located.
3) (co	Loc unty	cation from County Seat: <u>Approx 28</u> miles in a <u>northwesterly</u> direction from <u>City of Houston</u> v seat), <u>Harris</u> County, Texas.
	Loc	cation from nearby town (if other than County Seat): miles in a
		ection from, a nearby town shown on county highway map.
4)		Code: 77535
5)	Wa	ater will be discharged into <u>East Fork of San Jacinto</u> stream/reservoir,
	(tril	butaries) <u>San Jacinto River</u> Basin.
6)	Wa	ater will be discharged at a maximum rate of <u>31.22</u> cfs (14,000 gpm).
7)	The	e amount of water that will be discharged is <u>up to 10,000</u> acre-feet per year.
8)	The	e purpose of use for the water being discharged will be <u>municipal, industrial, steam electric, hydro-ctric, mining and oil and gas, recreation, instream and environmental, and irrigation</u>
9)		ditional information required:
For	gro	undwater
	1.	Provide water quality analysis and 24 hour pump test for the well if one has been conducted.
		Drilling of a test well was initiated during August, 2013; however, water quality analysis or pump tests have not been completed as of date of application submittal; results will be provided prior to discharge if requested
	2.	Locate and label the groundwater well(s) on a USGS 7.5 Minute Topographic Map See

3. Provide a copy of the groundwater well permit if it is located in a Groundwater Conservation District. Liberty County is not located within the jurisdiction of a groundwater conservation district.

4. What aquifer the water is being pumped from? Groundwater will be produced from the Evangeline Aquifer, part of the Gulf Coast aquifer system.

For treated effluent Not applicable

- 1. What is the TPDES Permit Number? Provide a copy of the permit.
- 2. Provide the monthly discharge data for the past 5 years.
- 3. What % of treated water was groundwater, surface water?
- 4. If any original water is surface water, provide the base water right number.

PERMIT APPLICATION COMPLETION CHECKLIST FOR HYDROLOGY, WATER CONSERVATION, AND DAM SAFETY

Name(s) of Applicant: Forestar (USA) Real Estate, Inc.

Stream, Basin, and County: <u>East Fork of San Jacinto and/or Luce Bayou for bed and banks conveyance from Liberty County to Houston Lake in Harris County.</u>

USGS 7.5 minute topographic map with all diversion points, discharge points, reservoirs, and/or land to be irrigated clearly indicated: See Attachment B.

Latitude and Longitude of all diversion points and/or reservoirs, including how the coordinates were determined:

Diversion amount: No surface water will be diverted via this bed and banks authorization; however, up to 10,000 acre-feet per year of groundwater will be diverted.

Diversion rate: No surface water will be diverted. Diversion rate for groundwater will not exceed 13,828 gpm (East Fork conveyance) or 13,902 gpm (Luce Bayou conveyance).

Monthly Diversion Distribution (the amount of the total water that you plan to divert each month):

J F M A M J J A S O N D

Reservoir capacity and surface area: Not applicable

Drainage area: Not applicable

Request to use the bed and banks of a watercourse and/or reservoir: See Attachment A

Other (copy of contract for water, alternate source of water, accounting plan, etc.) Please see Attachment D, "Special Warranty Deed" which provides evidence of Applicant's ownership of the groundwater. Water supply agreement with purchaser will include provisions for an accounting plan.

<u>WATER CONSERVATION PLAN</u> - As a wholesale water supplier, Applicant will include provisions in water supply agreements with purchasers requiring that have water conservation and drought management plans that comply with 20 TAC 281 and other applicable regulations. Water conservation and drought management plans will be submitted prior to discharge and diversion.

- 1. Plan and appropriate data form
- 2. Please specify the <u>quantitative</u> goals as outlined on the data form

DAM SAFETY - Not applicable as no reservoir is requested.

If a reservoir is requested in the application, the following information should be submitted:

- 1. Surface area and capacity of the reservoir
- 2. Plans (with engineer's seal) for the reservoir if the dam is over 6 feet high
- 3. Engineer's signed and sealed hazard classification
- 4. Statement from engineer that the structure complies with the Chapter 299 Rules and supporting documentation

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PERMIT APPLICATION COMPLETION CHECKLIST FOR HYDROLOGY, WATER CONSERVATION, AND DAM SAFETY

Name(s) of Applicant: Forestar (USA) Real Estate, Inc.

Stream, Basin, and County: <u>Orange Branch and/or Tarkington Bayou for bed and banks</u> conveyance from <u>Liberty County to Houston Lake in Harris County.</u>

USGS 7.5 minute topographic map with all diversion points, discharge points, reservoirs, and/or land to be irrigated clearly indicated: See Attachment B

Latitude and Longitude of all diversion points and/or reservoirs, including how the coordinates were determined:

Diversion amount: <u>No surface water will be diverted via this bed and banks authorization;</u> however, up to 10,000 acre-feet per year of groundwater will be diverted.

Diversion rate: No surface water will be diverted. Diversion rate for groundwater will not exceed 13,646 gpm (East Fork conveyance) or 13,761 gpm (Luce Bayou conveyance).

Monthly Diversion Distribution (the amount of the total water that you plan to divert each monthly No surface water is to be diverted. Monthly diversion of groundwater TBD but will be not exceed the volume discharge minus conveyance losses.

J F M A M J J A S O N D

Reservoir capacity and surface area: Not applicable

Drainage area: Not applicable

Request to use the bed and banks of a watercourse and/or reservoir: See Attachment A.

Other (copy of contract for water, alternate source of water, accounting plan, etc.)

Please Attachment C, "Special Warranty Deed" which provides evidence of Applicant's ownership of the groundwater. Water supply agreement with purchaser will include provisions for an accounting plan.

<u>WATER CONSERVATION PLAN</u> - As a wholesale water supplier, Applicant will include provisions in water supply agreements with purchasers requiring that they have water conservation and drought management plans that comply with 20 TAC 281 and other applicable regulations. Water conservation and drought management plans will be submitted prior to discharge and diversion.

- 1. Plan and appropriate data form
- 2. Please specify the quantitative goals as outlined on the data form

DAM SAFETY - Not applicable as no reservoir is requested.

If a reservoir is requested in the application, the following information should be submitted:

- 1. Surface area and capacity of the reservoir
- 2. Plans (with engineer's seal) for the reservoir if the dam is over 6 feet high
- 3. Engineer's signed and sealed hazard classification
- 4. Statement from engineer that the structure complies with the Chapter 299 Rules and supporting documentation